HDA6 (AT5G63110): global tree
File name: HDA6.mltree2.svg
293 aa residues 68 OTU included.

Assemble Job Id: 2rGtgg
Tree job id: bwtqtw
BP values out of 100
Analyzed by tomoakin@kenroku.kanazawa-u.ac.jp   originally by T. Kurata
Date: Sun Apr 22 22:00:51 JST 2007

XP_571598 *Cryptococcus neoformans var. neoformans JEC21* EAL20377 *Cryptococcus neoformans var. neoformans B-3501A* AAW44291 *Cryptococcus neoformans var. neoformans JEC21* hypothetical protein/hypothetical protein CNBF1870 /conserved hypothetical pro
EAQ93036 *Chaetomium globosum CBS 148.51* hypothetical protein CHGG_01271
XP_380956 *Gibberella zeae PH-1* EAA70726 hypothetical protein FG00780.1/hypothetical protein FG00780.1
XP_749474 *Aspergillus fumigatus Af293* EAL87436 histone deacetylase RpdA/histone deacetylase RpdA
XP_662097 *Aspergillus nidulans FGSC A4* AAF80489 *Emericella nidulans* EAA60836 *Aspergillus nidulans FGSC A4* hypothetical protein AN4493.2/histone deacetylase RpdA /hypothetical protein AN4493.2
XP_719896 *Candida albicans SC5314* XP_719779 EAL00908 EAL01033 putative Sin3.Rpd3 histone deacetylase complex component Rpd3p/putative Sin3.Rpd3 histone deacetylase complex component Rpd3p /potential Sin3.Rpd3 histone deacetylase complex component Rpd
XP_460469 *Debaryomyces hansenii CBS767* CAG88776 hypothetical protein DEHA0F02706g/unnamed protein product
NP_987061 *Eremothecium gossypii* AAS54885 *Ashbya gossypii ATCC 10895* AGR395Wp/AGR395Wp
XP_454037 *Kluyveromyces lactis NRRL Y-1140* AAK58884 *Kluyveromyces lactis* CAG99124 *Kluyveromyces lactis NRRL Y-1140* unnamed protein product/reduced potassium dependency 3 Rpd3p /unnamed protein product
XP_445032 *Candida glabrata CBS 138* CAG57932 unnamed protein product/unnamed protein product
NP_014069 *Saccharomyces cerevisiae* P32561 AAB20328 CAA58228 CAA96263 AAT92832 Histone deacetylase; regulates transcription and silencing; Rpd3p/RPD3_YEAST Histone deacetylase RPD3 (Transcriptional regulatory protein RPD3)/RPD3 /global transcriptional
NP_990078 *Gallus gallus* P56520 AAB96925 histone deacetylase 3/HDAC3_CHICK Histone deacetylase 3 (HD3)/histone deacetylase-3; HD-3
NP_001016883 *Xenopus tropicalis* CAJ81493 histone deacetylase 3/histone deacetylase 3
AAH70873 *Xenopus laevis* LOC432017 protein
XP_764608 *Theileria parva strain Muguga* EAN32325 *Theileria parva* histone deacetylase/histone deacetylase, putative
AAY53803 *Toxoplasma gondii* histone deacetylase 3
gnl|CMER|CMJ129C_histone_deacetylase
Smo_HDA6_5_1 Smo_HDA6_36_2
XP_464638 *Oryza sativa* (japonica cultivar-group) AAP47173 BAD25048 histone deacetylase HDAC3/histone deacetylase HDAC3 /histone deacetylase HDAC3
XP_464641 *Oryza sativa* (japonica cultivar-group) AAP47172 BAD17681 BAD25051 putative histone deacetylase HDAC3/histone deacetylase HDAC2 /putative histone deacetylase HDAC3 /putative histone deacetylase HDAC3
P56521 *Zea mays* AAC50038 HDAC_MAIZE Probable histone deacetylase (RPD3 homolog)/putative histone deacetylase RPD3
AAK67142 *Zea mays* histone deacetylase HDA101
AAK01712 *Oryza sativa* (indica cultivar-group) histone deacetylase HD1
AAP47171 *Oryza sativa* (japonica cultivar-group) BAD68730 BAD68731 histone deacetylase HDAC1/histone deacetylase HDAC1 /putative histone deacetylase HDAC1
AAF82385 *Mesembryanthemum crystallinum* histone deacetylase
AT4G38130 = NP_195526 O22446 CAB37553 CAB80478 AAM13152 AAP68312 HD1; histone deacetylase/HDAC_ARATH Histone deacetylase (HD)/Histone deacetylase /Histone deacetylase /histone deacetylase /At4g38130
AAB66486 *Arabidopsis thaliana* AAG28474 histone deacetylase/putative histone deacetylase
Ppa_HDA6_9_1
Smo_HDA6_40_1 Smo_HDA6_39_1
XP_481792 *Oryza sativa* (japonica cultivar-group) BAD03280 putative histone deacetylase/putative histone deacetylase
AAU82113 *Triticum aestivum* histone deacetylase
AAD10139 *Zea mays* AAL33653 histone deacetylase/histone deacetylase
AT5G35600 = NP_198410 BAB09994 AAM49768 histone deacetylase/histone deacetylase /HDA7
AAG28475 *Arabidopsis thaliana* putative histone deacetylase
AT5G63110 = NP_201116 BAB10553 AAL60022 AAM65853 AAN13198 HDA6 (HISTONE DEACETYLASE 6); histone deacetylase/histone deacetylase /putative histone deacetylase /histone deacetylase /putative histone deacetylase
NP_493026 *Caenorhabditis elegans* CAB03224 CAB03240 Histone DeAcetylase family member (hda-3)/Hypothetical protein R06C1.1 /Hypothetical protein R06C1.1
CAE71712 *Caenorhabditis briggsae* Hypothetical protein CBG18689
CAE60876 *Caenorhabditis briggsae* Hypothetical protein CBG04588
NP_506599 *Caenorhabditis elegans* O17695 CAB03984 Histone DeAcetylase family member (hda-1)/HDA1_CAEEL Histone deacetylase 1 /Hypothetical protein C53A5.3
CAF93492 *Tetraodon nigroviridis* unnamed protein product
P70288 *Mus musculus* AAC52889 HDAC2_MOUSE Histone deacetylase 2 (HD2) (YY1 transcription factor-binding protein)/transcriptional regulator homolog RPD3
NP_001518 *Homo sapiens* AAC50814 histone deacetylase 2/transcriptional regulator homolog RPD3
XP_342150 *Rattus norvegicus* PREDICTED: histone deacetylase 2
NP_032255 *Mus musculus* NP_001005432 *Xenopus tropicalis* Q92769 *Homo sapiens* AAH74509 *Xenopus tropicalis* CAI14207 *Homo sapiens* CAI15363 AAX29896 *synthetic construct* AAH31055 *Homo sapiens* CAJ81536 *Xenopus tropicalis* histone deacetylase 2/h
XP_532270 *Canis familiaris* PREDICTED: similar to Histone deacetylase 2 (HD2)
AAH54208 *Xenopus laevis* Hdac2 protein
AAH81054 *Xenopus laevis* Hdac2 protein
AAH64650 *Danio rerio* Hdac1 protein
NP_775343 *Danio rerio* AAM34645 histone deacetylase 1/histone deaceytlase 1
CAG09908 *Tetraodon nigroviridis* unnamed protein product
AAL89665 *Takifugu rubripes* histone deacetylase
AAH85375 *Danio rerio* Histone deacetylase 1
Q91695 *Xenopus laevis* CAA55211 AAH81136 HDA1A_XENLA Probable histone deacetylase 1-A (HD1) (Maternally-expressed histone deacetylase) (HDM) (AB21)/yeast RPD3 homologue /AB21 protein
O42227 *Xenopus laevis* AAC60346 HDA1B_XENLA Probable histone deacetylase 1-B (HD1) (RPD3 homolog)/deacetylase /MGC53583 protein
NP_001025564 *Xenopus tropicalis* AAH90604 hdac1_predicted-prov protein/Hdac1_predicted-prov protein
XP_576595 *Rattus norvegicus* PREDICTED: histone deacetylase 1
XP_930837 *Mus musculus* PREDICTED: skip
XP_513092 *Pan troglodytes* NP_001032521 *Bos taurus* NP_004955 *Homo sapiens* NP_032254 *Mus musculus* NP_001020580 *Rattus norvegicus* XP_544435 *Canis familiaris* XP_519834 *Pan troglodytes* Q13547 *Homo sapiens* O09106 *Mus musculus* AAC50475 *Homo*
P56517 *Gallus gallus* AAB96923 AAB99850 AAC00504 HDAC1_CHICK Histone deacetylase 1 (HD1)/histone deacetylase-1; HD-1 /histone deacetylase 1 /erythrocyte histone deacetylase
NP_999711 *Strongylocentrotus purpuratus* XP_798972 P56518 AAB87685 histone deacetylase/PREDICTED: similar to histone deacetylase 1 /HDAC1_STRPU Histone deacetylase 1 (HD1)/histone deacetylase
XP_394976 *Apis mellifera* PREDICTED: similar to ENSANGP00000004321
EAL30147 *Drosophila pseudoobscura* GA20378-PA
CAA70455 *Drosophila melanogaster* histone deacetylase
AAC23917 *Drosophila melanogaster* putative histone deacetylase HDAC1
NP_647918 *Drosophila melanogaster* Q94517 AAC61494 AAF47924 AAL13716 Rpd3 CG7471-PA/HDAC1_DROME Histone deacetylase Rpd3 (HD) (dRPD3)/putative histone deacetylase /CG7471-PA /GM14158p
XP_316539 *Anopheles gambiae str. PEST* EAA11382 ENSANGP00000004321/ENSANGP00000004321
XP_647498 *Dictyostelium discoideum AX4* EAL73465 *Dictyostelium discoideum* hypothetical protein DDB0189724/hypothetical protein DDB0189724
AAL83942 *Physarum polycephalum* putative histone deacetylase

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